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COUNTRY:	USSR (Ukrainian SSR)	
SUBJECT:	Geophysical Studies at the Lvov Polytechnic Institute and the Ukrainian Academy of Sciences, Lvov Branch	·
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Lvov Polytechnic Institute

- 1. The geological faculty of the Lvov Polytechnic Institute has an enrollment of approximately 1,000 students. The main departments of this faculty are as follows:
 - a. Department of astronomical geodesy
 - b. Department of geodesy
 - c. Department of geology
 - d. Department of geophysics.
- 2. The aim of the geophysical department, which usually has about 250 students, is to train engineers for geological exploration

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teams. During a five year course of studies, the students attend lectures and undergo examinations in the following subjects:

- a. Principles of Marxism-Leninism.
- b. Political economy (Politekonomia)
- c. Foreign languages (English, French or German)
- d. Higher mathematics
- e. Physics A (theory of electro-magnetic fields)
- f. Physics B (quantum mechanics)
- g. Chemistry (general) and the elements of analytical chemistry.
 - h. Organic chemistry
 - i. Geometrical drawing and graphics
 - j. Geodesy and topographical drawing
 - k. Theoretical mechanics
 - 1. Technical mechanics
 - m. Electro-technics and radio-technics
 - n. General geology
- o. Historical geology, palaeontology, geology of the USSR.
 - p. Applied geology
 - q. Crystallography and mineralogy

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- r. Petrography and quarrying
- s. Geology of oil and gas deposits
- t. Prospecting for oil and gas resources
- u. Introduction to industrial geophysics and geo-

physical research

- v. Theory of flexibility
- w. Drilling for prospecting purposes
- x. Prospecting by the gravimetrical method
- y. Prospecting by the magnetic method
- z. Prospecting by the seismic method
- aa. Prospecting by the electrical method
- bb. Geo-chemical prospecting methods
- cc. Industrial geophysics
- dd. Geological meaning of geophysical and geotectonic data
- ee. Theory of blasting
- ff. Economics of the oil and gas industry
- gg. Organization and planning of geological exploration institutions.
 - hh. Technology of safety precautions and fire-fighting.
- 3. In the third, fourth and fifth year of studies, the students are required to submit papers on the following subjects:

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- a. Applied geology
- b. Electro-technics and radio-technics
- c. Prospecting for oil and gas resources
- d. Prospecting by the gravimetrical method
- e. Prospecting by the electrical method
- f. Prospecting by the seismic method
- g. Organization and planning of geological prospecting institutions.
- quipment used by geological survey teams in their field work.

 The laboratory also has a seismic station, seismographs, electric measuring instruments, a generator, gravimetric instruments, a variometer, a special power station for geological exploration by the electric method, apparatus for Schlumberger tests, and instruments used in the magnetic method of geological explorations.
- 5. In their fifth year of studies, the students join a geological team working in the field for a practical training period of three months duration. In 1956 a number of students about to receive their degrees did their practical training with a geophysical team working in the vicinity of Poltava (N 49-35, E 34-34), where extensive oil fields were discovered, on behalf

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of "Ukrneftegeofizika". The material collected by the students during this period was regarded as classified. After the students had processed it under the supervision of "Ukrneftegeofizika"'s offices in Kiev, it was forwarded to the college by the institute's secret bureau.

- 6. The course of studies also includes military training.

 The students of all departments of the geological faculty are attached to the artillery branch. The major subjects studied in their military training include topography, surveying, artillery tactics and gunnery training.
- 7. In mid-1956, before the end of the academic year, a small group of students in the graduating class of the geophysical department was selected for the purpose of undergoing further training in the prospecting of radioactive materials. After graduation, this group of young engineers was sent to Moscow for further study at the central geophysical institute there.
- 8. The scientific staff of the geophysical department is engaged in research work for the purpose of attaining higher academic degrees. In 1956 one of the department's docents, a man by the name of Timoshin (fmu), defended a thesis on the

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Subject of "Raschoti Metoda Otrazhonnikh Voln Ot KrivolineyNikh Granits". [Accounts of the method of reflecting waves from curvilinear boundaries]

Lvov Branch of the Ukrainian Academy of Sciences

- 9. The branch of the Ukrainian Academy of Sciences in Lvov is situated on Kopernika Street, in the former Potocki Palace, near 1-10 Maya Street. The academy carries out its work in accordance with a central plan laid down by the Soviet Academy of Sciences. The Lvov branch is composed of the following departments:
 - a. Geology
 - b. Physics
 - c. Nuclear physics
 - d. Mechanics
 - e. Geophysics
 - f. Chemistry
 - g. Ukrainian language and literature
- 10. In the field of geophysics, the Lvov branch of the academy is engaged in the investigation of the crystalized strata of soil structure in the Western Ukraine. Geophysical teams carry out these investigations by means of the seismic, gravimetric and magnetic methods, as well as by the Schlumberger test. The

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academy's geophysical department in Lvov collaborates with its counterpart at the Polytechnic Institute, and the scientists on its staff lecture to the students on geological and geophysical subjects.

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ll. The following individuals are with the Lvov Polytechnic	
institute: N.K a. Migal (fine), dean of the geological faculty of the institute, is professor of geodesy and astronomy.	50X1-HUM
b. Pietkewicz (fmm) is a scientific worker and lecturer in the geophysics department at the institute.	50X1-HUM
c. Snarskiy (fmu) is deputy dean of the geological	
faculty at the institute.	50X1-HUM
d. Timoshin (fmm), docent in the geophysical department of the institute	50X1-HUM
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e. Trachuk (fmu), professor of mineralog	y, holds the
chair in mineralogy at the institute.	50X1-HUM
f. Vosanchuk (fmm), a docent, holds the geophysics at the institute.	chair in 50X1-HUN
12. The following individuals are with the Lve.enôei:	ov Academy of
a. Klushin (fmu) is a scientist on the s	
	tail of the
geophysical department of the Lvov Academy of	Sciences.
geophysical department of the Lvov Academy of	N.
geophysical department of the Lvov Academy of S b. Ladzshinskiy(fmu), professor of geolog	Sciences. 50X1-HUM gy, is director
у.	Sciences. 50X1-HUM gy, is director
b. Ladzhinskiy(fmu), professor of geolog of geology at the Lvov Academy.	50X1-HUM gy, is director 50X1-HUM
b. Ladzshinskiy(fmu), professor of geolog of geology at the Lvov Academy.	50X1-HUM gy, is director 50X1-HUM
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b. Ladishinskiy(fmu), professor of geologo of geology at the Lvov Academy. Silve C. Subotin (fm), an expert in gravimetrical statements of geology at the Lvov Academy.	50X1-HUM gy, is director 50X1-HUM